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FORM PTO 1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. P67452US0	APPLICATION NO. 10/083,336
		APPLICANT(s) Olsen, et al.	
		FILING DATE 27 February 2002	ART GROUP 1652

## U.S. PATENT DOCUMENTS

EXAMINER'S INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
MML	AA	4,080,457	03/1978	Harrison et al.			
	AB	4,689,401	08/1987	Ferris			
	AC	4,962,188	10/1990	Frankel			
	AD	5,453,271	09/1995	Lemley, et al.			
	AE	5,547,867	08/1996	Kara, et al.			
	AF	5,622,838	04/1997	Lord, et al.			
	AG	5,626,844	05/1997	Lemley, et al.			
	AH	5,646,026	08/1997	Walsh, et al.			
↓	AI	6,060,066	05/2000	Lemley, Jr., et al.			
MML	AJ	6,084,073	07/2000	Piatak, Jr.			

## FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
MML	AK	WO 00/53215	09/2000	PCT Int'l.			<input type="checkbox"/> Yes <input type="checkbox"/> No

## OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

EXAMINER'S INITIAL			Include Author, Title, Date, Pertinent, etc.				
MML	AL	1	Aboud-Pirak, E, et al. (1993) "Identification of a Neutralizing Epitope on a Chain and Application ", Medical Defense Bioscience Review, Proceedings (5):1431-1440				
	AM	1	Afrin, LB, et al (1994) "Expression of Oligohistidine-Tagged Ricin B. Chain in <i>Spodoptera frugiperda</i> " Bioconjugate Chem. 5(6):539-546				
	AN	1	Appukuttan, PS, et al (1979) "Separation of Polypeptide Chains of Ricin and the Interaction of the A Chain With Cibacron Blue F <sub>3</sub> GA" Biochimica et Biophysica Acta, 580:10-14				
	AO	1	Argent, RH, et al. (1995) "Purification of Recombinant Ricin A Chain after Reassociation with Ricin B Chain" Analytical Biochemistry (224):459-460				
MML	AP	1	Blakey, DC, et al. (1987) "Effect of Chemical Deglycosylation of Ricin A Chain on the <i>in Vivo</i> Fate and Cytotoxic Activity of an Immunotoxin Composed of Ricin A Chain and Anti-Thy 1.1 Antibody", Cancer Research (47):947-952				
EXAMINER			MML				9/15/03
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							



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EXAMINER'S INITIAL			Include Author, Title, Date, Pertinent, etc.
<i>mmol</i>	AQ	<u>1</u>	Baluna, R, <i>et al.</i> (1999) "Evidence for a structural motif in toxins and interleukin-2 that may be responsible for binding to endothelial cells and initiating vascular leak syndrome", Proc. Natl. Acad. Sci. (96):3957-3963
	AR	<u>1</u>	Bradley, JL, <i>et al.</i> (1989) "Site-directed mutagenesis at amino terminus of recombinant ricin A chain" Int. J. Peptide Protein Res. (34):2-5
	AS	<u>1</u>	Brigotti, M, <i>et al.</i> (1998) "A rapid and sensitive method to measure the enzymatic activity of ribosome-inactivating proteins" Nucleic Acids Research, (26):18
	AT	<u>1</u>	"Chemical Warfare Agents, and Related Chemical Problems, Parts I-II", Ricin, Chapter 12, Summary Technical Report of Div. 9, NDRA , Volume 1 (1946)
	AU	<u>1</u>	Byers, V, <i>et al.</i> (1993) "Suppression of Antibody Responses to Ricin A Chain (RTA) by Monoclonal Anti-RTA Antibodies" Journal of Clinical Immunology, (13):6
	AV	<u>1</u>	Chang, MS, <i>et al.</i> (1987) "Cloning and expression of recombinant, functional ricin B chain" Proc. Natl. Acad. Sci, (84):5640-5644
	AW	<u>1</u>	Chanh, TC, <i>et al.</i> (1993) "Monoclonal Antibody Prophylaxis Against the <i>In Vivo</i> Toxicity of Ricin in Mice" Immunological Investigations 22(1):63-72
	AX	<u>1</u>	Colombatti, M, <i>et al.</i> (1986) "Monoclonal Antibodies Against Ricin: Effects on Toxin Function" HYBRIDOMA 5(1): 9-19
	AY	<u>1</u>	Day, PJ, <i>et al.</i> (1996) "Structure and Activity of an Active Site Substitution of Ricin A Chain" Biochemistry (35):11098-11103
	AZ	<u>1</u>	Despeyroux, D, <i>et al.</i> (2000) "Characterization of Ricin Heterogeneity by Electrospray Mass Spectrometry, Capillary Electrophoresis, and Resonant Mirror", Analytical Biochemistry (279):23-36
	BA	<u>1</u>	Emmanuel, F, <i>et al.</i> (1988) "Separation of Ricin A- and B-Chains after Dithiothreitol Reduction" Analytical Biochemistry (173):134-141
	BB	<u>1</u>	Ferrini, JB, <i>et al.</i> (1995) "Expression of functional ricin B chain using the baculovirus system" Eur. J. Biochem. (233):772-777
	BC	<u>1</u>	Foxwell, BM, <i>et al.</i> (1987) "The preparation of deglycosylated ricin by recombination of glycosidase-treated A- and B-chains: effects of deglycosylation on toxicity and in vivo distribution" Biochimica et Biophysica Acta (923):59-65
<i>mmol</i>	BD	<u>1</u>	Foxwell, BMJ, <i>et al.</i> (1985) "The removal of carbohydrates from ricin with endoglycosidases H, F and D and $\alpha$ -mannosidase", Biochimica et Biophysica Acta (840):193-203
EXAMINER	<i>mmol</i>		<i>8151V3</i>
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<i>mmml</i>	BE	<u>1</u>	Foxwell, BMJ, et al. (1985) "The Use of Anti-ricin Antibodies to Protect Mice Intoxicated with Ricin" <i>Toxicology</i> , (34):79-88
	BF	<u>1</u>	Frankel, A, et al. (1994) "Expression of ricin B chain in <i>Spodoptera frugiperda</i> " <i>Biochem. J.</i> (303):787-794
	BG	<u>1</u>	Frankel, A, et al. (1989) "Selection and Characterization of Ricin Toxin A-Chain Mutations in <i>Saccharomyces cerevisiae</i> " <i>Molecular and Cellular Biology</i> , 9(2):415-420
	BH	<u>1</u>	Franz, DR, et al. "Ricin Toxin" <i>Medical Aspects of Chemical &amp; Biological Warfare</i> 631-642
	BI	<u>1</u>	Frénoy, JP (1986) "Effect of physical environment on the conformation of ricin" <i>Biochem. J.</i> (240):221-226
	BJ	<u>1</u>	Frénoy, JP et al. (1986) "Structure and stability of <i>Ricinus communis</i> haemagglutinin" <i>Biochem. J.</i> (240):227-231
	BK	<u>1</u>	Frigerio, L, et al. (2001) "The Internal Propeptide of the Ricin Precursor Carries a Sequence-Specific Determinant for Vacuolar Sorting" <i>Plant Physiology</i> (126):167-175
	BL	<u>1</u>	Fulton, R.J., et al. (1986) "Purification of Ricin A <sub>1</sub> , A <sub>2</sub> , and B Chains and Characterization of Their Toxicity" <i>The Journal of Biological Chemistry</i> 261(12):5314-5319
	BM	<u>1</u>	Furukawa-Stoffer, TL, et al. (1999) "A Novel Biological-Based Assay for the Screening of Neutralizing Antibodies to Ricin" <i>HYBRIDOMA</i> 18(6):505-510
	BN	<u>1</u>	Griffiths, GD, et al. (1999) "Comparison of the quality of protection elicited by toxoid and peptide liposomal vaccine formulations against ricin as assessed by markers of inflammation" <i>Vaccine</i> (17):2562-2568
	BO	<u>1</u>	Griffiths, GD, et al. (1995) "Protection against inhalation toxicity of ricin and abrin by immunisation" <i>Human &amp; Experimental Toxicology</i> (14):155-164
	BP	<u>1</u>	Griffiths, GD, et al. (1997) "Liposomally-encapsulated ricin toxoid vaccine delivered intratracheally elicits a good immune response and protects against a lethal pulmonary dose of ricin toxin" <i>Vaccine</i> 15(17/18):1933-1939
	BQ	<u>1</u>	Griffiths, GD, et al. "The inhalation toxicology of the castor bean toxin, ricin, and protection by vaccination" <i>Journal of Defense Science</i> 1(2):227-235
<i>mmml</i>	BR	<u>1</u>	Hale, ML (2001) "Microtiter-Based Assay for Evaluating the Biological Activity of Ribosome-Inactivating Proteins" <i>Pharmacology &amp; Toxicology</i> (88):255-260
<i>mmml</i>	BS	<u>1</u>	Hewetson, JF, et al. (1993) "Protection of mice from inhaled ricin by vaccination with ricin or by passive treatment with heterologous antibody" <i>Vaccine</i> 11(7):743-746
EXAMINER	<i>mmml</i>		<i>9/15/03</i>
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<i>mmq</i>	BT	<u>1</u>	Hussain, K, et al. (1989) "Expression of ricin B chain in <i>Escherichia coli</i> " FEBS Letters 244(2):383-387
	BU	<u>1</u>	Katzin, BJ, et al. (1991) "Structure of Ricin A-Chain at 2.5 Å" PROTEINS: Structure, Function, and Genetics (10):251-259
	BV	<u>1</u>	Kim, Y, et al. (1992) "Analysis of several key active site residues of ricin A chain by mutagenesis and X-ray crystallography" Protein Engineering 5(8):775-779
	BW	<u>1</u>	Kim, Y, et al. (1992) "Structure of a Ricin Mutant Showing Rescue of Activity by a Noncatalytic Residue" Biochemistry (31):3294-3296
	BX	<u>1</u>	Kurinov, IV, et al. (1999) X-ray crystallographic analysis of the structural basis for the interaction of pokeweed antiviral protein with guanine residues of ribosomal RNA" Protein Science (8):2399-2405
	BY	<u>1</u>	Lamb, FI, et al. (1985) "Nucleotide sequence of cloned cDNA coding for proricin" Bar J. Biochem 1(48):265-270
	BZ	<u>1</u>	Langer, M, et al. (1996) "A Nonradioactive Assay for Ribosome-Inactivating Proteins" Analytical Biochemistry (243):150-153
	CA	<u>1</u>	Langer, M, et al. "A Nonradioactive Assay for Ribosome-Inactivating Proteins" BRAIN GmbH, Bio. Res. & Info. Network
	CB	<u>1</u>	Lebeda, FJ, et al. (1999) "Prediction of a conserved, neutralizing epitope in ribosome-inactivating proteins" Int'l. Journal of Bio. Macromolecules (24):19-26
	CC	<u>1</u>	Lemley, PV, et al. (1992) "Mice are actively immunized after passive monoclonal antibody prophylaxis and ricin toxin challenge" Immunology (76):511-513
	CD	<u>1</u>	Lemley, PV, et al. (1992) "Prophylactic and therapeutic efficacy of an avian antitoxin in ricin intoxication" Therapeutic Immunology (2):59-66
	CE	<u>1</u>	Lemley, PV, et al. (1994) "Identification and Characterization of A Monoclonal Antibody that Neutralizes Ricin Toxicity in Vitro and in Vivo" HYBRIDOMA 13(5):417-421
	CF	<u>1</u>	Lewis, MS, et al. (1986) "Thermodynamics and the Role of the Disulfide Bond in Toxicity" Ricin Subunit Association 11571-11577
	CG	<u>1</u>	Mlsna, D, et al. (1993) "Structure of recombinant ricin a chain at 2.3 Å" Protein Science (2):429-435
<i>mmq</i>	CH	<u>1</u>	Montfort, W, et al. (1987) "The Three-dimensional Structure of Ricin at 2.8 Å" The Journal of Biological Chemistry 262(11):5398-5403
<i>mmq</i>	CI	<u>1</u>	O'Hare, M, et al. (1992) "Biological activity of recombinant <i>Ricinus communis</i> agglutinin A chain produced in <i>Escherichia coli</i> " FEBS Letters 299(3):209-212
EXAMINER	<i>mmq</i>		<i>9/15/03</i>
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<i>MMR</i>	CJ	<u>1</u>	Olson, MA (2001) "Electrostatic effects on the free-energy balance in folding a ribosome-inactivating protein" Biophysical Chemistry (91):219-229
	CK	<u>1</u>	Olson, MA (2001) "Calculations of Free-Energy Contributions to Protein-RNA Complex Stabilization" Biophysical Journal (81):1841-1853
	CL	<u>1</u>	Olson, MA (1999) "Free Energy Determinants of Binding the rRNA Substrate and Small Ligands to Ricin A-Chain" Biophysical Journal (76):28-39
	CM	<u>1</u>	Olson, MA (1997) "Ricin A-Chain Structural Determinant for Binding Substrate Analogues: A Molecular Dynamics Simulation Analysis" PROTEINS: Structure, Function, and Genetics (27):80-95
	CN	<u>1</u>	Olsnes, S, et al. (2001) "Ricin" Toxicon (39):1723-1728
	CO	<u>1</u>	Pastan, I, et al. (1992) "Recombinant Toxins as Novel Therapeutic Agents" Annu Rev. Biochem (61):331-54
	CP	<u>1</u>	Pistak, M, et al. (1988) "Expression of Soluble and Fully Functional Ricin A Chain in <i>Escherichia coli</i> is Temperature-sensitive" The Journal of Biological Chemistry 263(10):4837-4843
	CQ	<u>1</u>	Poli, MA, et al. (1996) "Aerosolized Specific Antibody Protects Mice From Lung Injury Associated With Aerosolized Ricin Exposure" Toxicon 34(9):1037-1044
	CR	<u>1</u>	Ready, MP, et al. (1991) "Site-Directed Mutagenesis of Ricin A-Chain and Implications for the Mechanism of Action" PROTEINS: Structure, Function, and Genetics (10):270-278
	CS	<u>1</u>	Richardson, PT, et al. (1988) "The expression of functional ricin B-chain in <i>Saccharomyces cerevisiae</i> " Biochimica et Biophysica Acta ( 950):385-394
	CT	<u>1</u>	Robertus, J, et al. (1987) "Crystallization of Ricin A Chain Obtained from a Cloned Gene Expressed in <i>Escherichia coli</i> " The Journal of Biological Chemistry 262(1):19-20
<i>MMR</i>	CU	<u>1</u>	Rutember, E, et al. (1991) "Crystallographic Refinement of Ricin to 2.5 Å" PROTEINS: Structure, Function, and Genetics (10):240-250
EXAMINER	<i>MMR</i>		9/15/03

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EXAMINER'S INITIAL			Include Author, Title, Date, Pertinent, etc.
MM2	CV	1	Rutenber, E, et al. (1991) "Structure of Ricin B-Chain at 2.5 Å Resolution" PROTEINS: Structure, Function, and Genetics (10):260-269
	CW	1	Schlossman, D et al. (1989) "Role of Glutamic Acid 177 of the Recin Toxin A Chain in Enzymatic Inactivation of Ribosomes" Molecular and Cellular Biology 9(11):5012-5021
	CX	1	Schramm, V (1997) "Enzymatic N-riboside scission in RNA and RNA precursors" Curr. Opin. Chem. Biol. 1:323-331
	CY	1	Simmons, BM, et al. (1985) "A Single Affinity Column Step Method for the Purification of Ricin Toxin from Castor Beans ( <i>Ricinus communis</i> ) Analytical Biochemistry (146):206-210
	CZ	1	Smallshaw, JE, et al. (2002) "A novel recombinant vaccine which protects mice against ricin intoxication" Vaccine (20):3422-3427
	DA	1	Tagge, E, et al. (1997) "Synthesis of Green Fluorescent Protein-Ricin and Monitoring of Its Intracellular Trafficking" Bioconjugate Chem. (8):743-750
	DB	1	Tagge, et al. (1996) "Preproricin Expressed in <i>Nicotiana tabacum</i> Cells in Vitro Fully Processed and Biologically Active" In-Vitro Plant Cell Expression of Preproricin (8):109-118
	DC	1	Vitetta, ES, et al. (1990) "Expression and functional properties of genetically engineered ricin B chain lacking galactose-binding activity" Biochimica et Biophysica Acta, (1049):151-157
	DD	1	Vitetta, E, et al. Vaccines to Protect Against Aerosolized Ricin UTSD:0723
	DE	1	Vogel, P, et al. (1996) "Comparison of the Pulmonary Distribution and Efficacy of Antibodies Given to Mice by Intratracheal Instillation or Aerosol Inhalation" Lab. Animal Science 46(5):516-523
MM2	DF	1	Wales, R, et al. (1994) "Ricin B. chain fragments expressed in <i>Escherichia coli</i> are able to bind free galactose in contrast to the full length polypeptide" Glycoconjugate Journal (11):274-281
MM2	DG	1	Weston, SA, et al. (1994) "X-ray Structure of Recombinant Ricin A-Chain at 1.8 Å Resolution" J. Mol. Bio. (244):410-422
EXAMINER	MM2		2/15/03

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FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS							
EXAMINER'S INITIAL				Include Author, Date, Title, Pertinent, etc.			
<i>mmml</i>	DL	<u>1</u>	Chen, X., et al. (1998) "Ricin A-Chain: Kinetics, Mechanism, and RNA Stem – Loop Inhibitors" Biochemistry 37:11605-11613.				
	DM	<u>1</u>	Gould, J., et al. (1991) "Alteration of an amino acid residue outside the active site of the ricin A chain reduces its toxicity towards yeast ribosomes" Mol. Gen. Genet. 230:81-90.				
	DN	<u>1</u>	Lord, J., et al. (1991) "Ribosome inactivating proteins of plants" Cell Biology 2:15-22.				
<i>mmml</i>	DO	<u>1</u>	Robertus, Jon. (1991) "The structure and action of ricin, a cytotoxic N-glycosidase" Cell Biology 2:23-30.				
EXAMINER	<i>mmml</i>			9/18/03			

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